

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/798,857
Filing Date	March 11, 2004
First Named Inventor	James F. BROWN
Art Unit	1641
Examiner Name	C. L. Chin
Attorney Docket Number	LT00043.3 DIV (NEW) 832_001 DIV3 (OLD)

**U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-			
		US-			
		US-			
		US-			

**Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.****FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation <sup>3</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				Translation <sup>3</sup>
	1	Ruano, Gualberto et al., "Haplotype of Multiple Polymorphisms Resolved by Enzymatic Amplification of Single DNA Molecules," <i>Proceedings of the National Academy of Sciences of the United States of America</i> , Aug. 1990, Vol. 87, Iss. 16, pp. 6296-6300.				
	2	SOLID <sup>TM</sup> System, Sequencing by Oligonucleotide Ligation and Detection," Presentation, Nov. 2006, Applied Biosystems.				
	3	Sykes, P.J. et al., "Quantitation of Targets for PCR by Use of Limiting Dilution," <i>BioTechniques</i> , 1992, Vol. 13, No. 3, pp. 444-449.				
	4	Chetverina, Helena V., and Chetverin, Alexander B., "Cloning of RNA molecules <i>in vitro</i> ," <i>Nucleic Acids Research</i> , 1993, Vol. 21, No. 10, pp. 2349-2353.				
	5	Newton, C.R. et al., "Analysis of any point mutation in DNA. The amplification refractory mutation system (ARMS)," <i>Nucleic Acids Research</i> , 1989, Vol. 17, No. 7, pp. 2503-2516.				
	6	Voss, Hartmut et al., "Direct genomic fluorescent on-line sequencing and analysis using <i>in vitro</i> amplification of DNA," <i>Nucleic Acids Research</i> , 1989, Vol. 17, No. 7, pp. 2517-2527.				
	7	Lamture, Jagannath B. et al., "Direct detection of nucleic acid hybridization on the surface of a charge coupled device," <i>Nucleic Acids Research</i> , 1994, Vol. 22, No. 11, pp. 2121-2125.				
	8	Southern, Ed M., "DNA chips: analysing sequence by hybridization to oligonucleotides on a large scale," <i>Trends in Genetics</i> , Mar. 1996, Vol. 12, No. 3, pp. 110-115.				
	9	Southern, Edwin M., "High-density gridding: techniques and applications," <i>Biotechnology</i> , 1996, Vol. 7, pp. 85-88.				
	10	Van Ness, Jeffrey et al., "A versatile solid support system for oligodeoxynucleotide probe-based hybridization assays," <i>Nucleic Acids Research</i> , 1991, Vol. 19, No. 12, pp. 3345-3350.				
	11	Käller, Max et al., "Arrayed identification of DNA signatures," <i>Expert Review of Molecular Diagnostics</i> , Jan. 2007, Vol. 7, No. 1, pp. 65-76.				
	12	Mardis, Elaine R., "The impact of next-generation sequencing technology on genetics," <i>Trends in Genetics</i> , 2007, Vol. 24, No. 3, pp. 133-141.				
	13	Shendure, Jay A., "Overview of DNA Sequencing Strategies," <i>Current Protocols in Molecular Biology</i> , Jan. 2008, Vol. 81, pp. 7.1.1-7.1.11.				
	14	"DNA Sequencing," Product Guide, Illumina, Inc., San Diego, CA, Dec. 2007, pp. 58-79.				

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

2

**Complete if Known**

Application Number	10/798,857
Filing Date	March 11, 2004
First Named Inventor	James F. BROWN
Art Unit	1641
Examiner Name	C. L. Chin
Attorney Docket Number	LT00043.3 DIV (NEW) 832_001 DIV3 (OLD)

**NON PATENT LITERATURE DOCUMENTS**

15	Lukyanov, Konstantin A., "Molecule by molecule PCR amplification of complex DNA mixtures for direct sequencing: an approach to <i>in vitro</i> cloning," <i>Nucleic Acids Research</i> , 1996, Vol. 24, No. 11, pp. 2194-2195.	
16	"Digital (or Clonal) PCR is an Essential Part of Processes for Second Generation Sequencing." [website page online]. Nature Publishing Group, webpage copyrighted 2008 [retrieved on 2008-10-23]. Retrieved from the Internet: <URL: <a href="http://www.genomicnanosystems.com/naturemethodsjan2008.html">www.genomicnanosystems.com/naturemethodsjan2008.html</a> >.	
17	"DNA Sequencing with Solexa® Technology," Publication, May 1, 2007, No. 770-2007-002, Illumina, Inc., San Diego, CA.	
18	Simmonds, Peter et al., "Human Immunodeficiency Virus-Infected Individuals Contain Provirus in Small Numbers of Peripheral Mononuclear Cells and at Low Copy Numbers," <i>Journal of Virology</i> , Feb. 1990, Vol. 64, No. 2, pp. 864-872.	
19	Simmonds, Peter et al., "Analysis of Sequence Diversity in Hypervariable Regions of the External Glycoprotein of Human Immunodeficiency Virus Type 1," <i>Journal of Virology</i> , Dec. 1990, Vol. 64, No. 12, pp. 5840-5850.	

Examiner  
Signature

/Christopher Chin/

Date  
Considered

03/26/2010

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO Notes regarding this form:

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**